

**What is claimed is:**

1. A mobile terminal having a personal authentication function and a communication function for bi-directionally communicating with a communication base station, comprising:
  - 5 a personal authentication information storing section for storing personal authentication information; an identity information inputting section for inputting identity information of a current user of the mobile terminal for identification of an authentic user of the mobile terminal;
  - 10 a personal authentication section which checks authenticity of the identity information inputted from the identity information inputting section on the basis of the personal authentication information stored in the personal authentication information storing section for personal authentication; and
  - 15 an informing section which transmits an authentication result to the communication base station if the personal authentication is failed as the result of the check of the authenticity of the identity information by the personal authentication section.
2. A mobile terminal as set forth in claim 1,
  - 20 wherein the personal authentication information stored in the personal authentication information storing section is fingerprint information,
    - wherein the identity information inputting section comprises a fingerprint inputting section which inputs a fingerprint of the current user of the mobile terminal,
    - 25 wherein the personal authentication section checks

authenticity of the fingerprint inputted from the fingerprint inputting section on the basis of the fingerprint information stored in the personal authentication information storing section.

3. A mobile terminal as set forth in claim 1,

5 wherein the personal authentication information stored in the personal authentication information storing section is facial image information,

wherein the identity information inputting section comprises a camera for picking up a facial image of the current 10 user of the mobile terminal,

wherein the personal authentication section checks authenticity of the facial image picked up by the camera on the basis of the facial image information stored in the personal authentication information storing section.

15 4. A mobile terminal as set forth in claim 1, further comprising:

an authentication result storing section for storing an authentication failure result if the personal authentication is failed with the identity information; and

20 an authentication failure control section which performs a control operation if the personal authentication is failed with the identity information,

wherein the authentication failure control section controls the informing section to transmit the authentication failure result 25 stored in the authentication result storing section to the communication base station when the current user makes an

attempt at transmission control.

5. A mobile terminal as set forth in claim 1, further comprising:

an authentication result storing section for storing an

5 authentication failure result if the personal authentication is failed with the identity information; and

an authentication failure control section which performs a control operation if the personal authentication is failed with the identity information,

10 wherein the authentication failure control section controls the informing section to transmit the authentication failure result stored in the authentication result storing section to the communication base station when the personal authentication is failed a predetermined number of times.

15 6. A mobile terminal as set forth in claim 1, further comprising a function disabling section which disables some or all of communication functions after the informing section transmits the authentication result to the communication base station.

7. A mobile terminal system with a personal authentication  
20 function comprising:

a mobile terminal as recited in any of claims 1 to 6; and

a communication base station which bi-directionally communicates with the mobile terminal,

wherein the communication base station comprises:

25 an owner information storing section which stores owner information including a name and a wire phone number of an owner

of the mobile terminal; and

an owner-addressed authentication result informing section which, upon reception of a personal authentication failure result from the mobile terminal, transmits the personal authentication

- 5 failure result to the owner with reference to the owner information stored in the owner information storing section.

8. A mobile terminal system as set forth in claim 7, wherein the communication base station further comprises a predetermined-organization-addressed authentication result

- 10 informing section which, upon reception of the personal authentication failure result from the mobile terminal, transmits the personal authentication failure result to a predetermined organization.

9. A mobile terminal system as set forth in claim 7 or 8,

- 15 wherein the communication base station further comprises a positional information adding section which adds positional information indicative of a position of the mobile terminal communicating with the communication base station to the personal authentication failure result when the owner-addressed  
20 authentication result informing section or the predetermined-organization-addressed authentication result informing section transmits the personal authentication failure result to the owner or the predetermined organization.